

Keysight D9050PCIC PCI Express Gen5 Automated Test Application Software

Keysight D9050PCIC Software Version 1.11.2.0

Released Date:	July 2020
System Requirements (e.g., operating system):	Microsoft Windows 7 and Windows 10
Required Equipment (e.g., instrument software version):	6.55.00504 (90000 Q-Series, Z-Series), 10.20.00703 (UXR-Series)
File Name:	SetupInfPCIE501110002.exe

Bug Fixes

- Hide the selection of Channel 3 & 4 when running in two-channel scope setup.
- Fix two-channel handling SSC Modulation Frequency test which will turn off Channel 3 display.
- Accept any folder by ignoring additional non-waveform files in folder when copying waveform from external disk.
- Increase time out during setting up measurement trend.
- Removed 256GSa/s choice from sampling rate selection in 2.5GT/s and 5.0GT/s tests due to unreasonable high sampling rate in low data rate.

Keysight D9050PCIC Software Version 1.11.1.0

Released Date:	April 2020
System Requirements (e.g., operating system):	Microsoft Windows 7 and Windows 10
Required Equipment (e.g., instrument software version):	6.55.00401 (90000 Q-Series, Z-Series), 10.20.00503 (UXR-Series)
File Name:	SetupInfPCIE501110001.exe

Modification

- Compliance application versioning format is changed to 1.11.1.0. This format will be used for all future releases.

Bug Fixes

- Fixed the behavior to force acquiring waveform if Force New Acquisition option is checked during Equalization Preset Test.
- Increased the timeout duration dynamically according to Interpolation Integer.
- Updated the correct test limit of Pseudo Package Loss Test for 8, 16 & 32GT/s.
- Fixed the precision level of DDJ and RJ tests for all data rates.
- Fixed the RJ test to report in RMS instead of p-p value.
- Updated the correct limit used in Absolute Min Input Voltage from MAX_INCLUSIVE to MIN_INCLUSIVE.
- Updated the sampling rate selection for each data rate in Configure Tab.

Known Issues

- With data speed of 2.5GT/s, 1.6M UI and INT4 of Sine(x)/x Interpolation configuration, Infiniium might not able to capture the required waveform intermittently.

Keysight D9050PCIC Software Version 01.11.0000

Released Date:	6 th December 2019
System Requirements (e.g., operating system):	Microsoft Windows 7 and Windows 10
Required Equipment (e.g., instrument software version):	6.50.00906 (90000 Q-Series, Z-Series), 10.12.05302 (UXR-Series)
File Name:	SetupInfPCIE501110000.exe

Features

- Supports Infiniium Oscilloscope Software version 6.50 for non UXR-Series oscilloscope.
- Supports Infiniium Oscilloscope Software version 10.12 for UXR-Series oscilloscope.
- Supports non Real Edge connection in Q-Series and Z-Series oscilloscope (for data rate 16GT/s and below only).

Modification

- App will prompt reacquire-waveform-confirmation message if the previous waveform exists in the same device folder.
- Rephrase the choices in Sample Rate, GSa/s of all data rates by removing "E+9" in Configure tab.
- Remove Equalization Preset Tests when running Base-RefClk Test.

- Rephrase Noise Reduction BW, GHz to Noise Reduction BW, Hz in Configure tab.
- Remove additional RemoteHint that will cause duplicated description in Remote Programming Reference.

Keysight D9050PCIC Software Version 01.10.0000

Released Date:	27 th September 2019
System Requirements (e.g., operating system):	Microsoft Windows 7 and Windows 10
Required Equipment (e.g., instrument software version):	6.40.01101 (90000 Q-Series, Z-Series), 10.11.04711 (UXR-Series)
File Name:	SetupInfPCIE501100000.exe

Initial Release

Features

- Supports 2.5GT/s and 5.0GT/s data rate tests.
- Provides Waveform Management GUI to manage waveform folders effectively.

Modification

- SigTest application version 4.0.46 is packaged and supported in compliance application.
- In the absence of EZJIT/EZJIT PLUS license, several tests across all data rates will be disabled as stated below:
 - Unit Interval
 - SSC Modulation Frequency
 - SSC Peak Deviation (Max)
 - SSC Peak Deviation (Min)
 - SSC Df/Dt (Max)
 - RefClk SSC Frequency Range
 - RefClk SSC Deviation
 - RefClk Max SSC df/dt
 - Peak to Peak Jitter (Common Clk)
 - RMS Jitter (Common Clk)

Known Issues

- Real Edge license checking is unavailable in Q-Series & Z-Series scopes.

Keysight D9050PCIC Software Version 01.00.0001

Released Date:	7 th June 2019
System Requirements (e.g., operating system):	Microsoft Windows 7 and Windows 10

Required Equipment (e.g., instrument software version):	6.40.00714 (90000 Q-Series, Z-Series), 10.10.04419 (UXR-Series)
File Name:	SetupInfPCIE501000001.exe

Initial Release

Features

- Supports PCI Express Base Specification Revision 5.0
- Supports Base - Transmitter Tests, Base - References Clock Tests, and Equalization Preset Tests
- Supports 8 GT/s, 16 GT/s and 32 GT/s data rate tests
- Supports updated SigTest version
- Provides ANPL (Analyze Now; Process Later)
- Supports UXR Oscilloscopes with 50GHz bandwidth or higher
- Supports Real Edge connection on Z-Series & Q-Series Oscilloscopes with 50GHz bandwidth or higher

Known Issues

- SigTest executables GUI may not reflect the actual configuration during measurements
- Enabling **Interpolation** option (in **Configure** tab) will lead to longer test time

SigTest Version Configuration Overview

PCIE Gen 5.0 & SigTest

Gen	Data Speed (GT/s)	Test Point	SigTest Configuration
5.0	8	Base - Tx	4.0.46
		CEM - Add In	N/A
		CEM - System	N/A
		Reference Clock	N/A
		Equalization Preset	4.0.46
	16	Base - Tx	4.0.46
		CEM - Add In	N/A
		CEM - System	N/A
		Reference Clock	N/A
		Equalization Preset	4.0.46
	32	Base - Tx	4.0.46
		CEM - Add In	N/A
		CEM - System	N/A
		Reference Clock	N/A
		Equalization Preset	4.0.46

SigTest Installation

It is recommended to install all the supported SigTest application versions as mentioned in the Table above. See more details in [Keysight D9050PCIC PCI Express Gen5 Automated Test Application - Compliance Testing Methods of Implementation](#).

Download the required SigTest application version(s) from the following link:

<https://www.intel.com/content/www/us/en/design/technology/high-speed-io/tools.html?grouping=rdc%20Content%20Types&sort=title:asc>

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